

Appl. No. 10/538,485
Amdt. Dated September 22, 2009
Reply to Office Action of May 28, 2009

Attorney Docket No. 81864.0065
Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended): A ferrite magnet powder represented by the composition formula $AFe^{2+}{}_{a(1-x)}M^{+}{}_{ax}Fe^{3+}{}_{b}O_{27}$, wherein A represents at least one element selected from the group consisting of Sr, Ba, and Pb; and M represents at least one element selected from the group consisting of Zn, Co, Mn, and Ni, characterized in that $0.10 \leq x \leq 0.70$,
 $1.5 \leq a \leq 2.2$, and
 $12 \leq b \leq 17$.
2. (Original): The ferrite magnet powder according to claim 1, characterized in that a crystal phase identified by X-ray diffraction comprises a W phase as a main phase.
3. (Canceled).
4. (Original): The ferrite magnet powder according to claim 1, characterized in that $1.7 \leq a \leq 2.2$ in said composition formula.
5. (Original): The ferrite magnet powder according to claim 1, characterized in that $14 \leq b \leq 17$ in said composition formula.
6. (Original): The ferrite magnet powder according to claim 1, characterized in that said M is Zn.

7. (Original): The ferrite magnet powder according to claim 1, characterized in that said ferrite magnet powder has a saturation magnetization of 5.0 kG or more.

8. (Original): The ferrite magnet powder according to claim 1, characterized in that said ferrite magnet powder has a saturation magnetization of 5.1 kG or more.

9. (Currently amended): A sintered magnet represented by the composition formula $AFe^{2+}a(1-x)M_{ax}Fe^{3+}bO_{27}$, wherein A represents at least one element selected from the group consisting of Sr, Ba, and Pb; and M represents at least one element selected from the group consisting of Zn, Co, Mn, and Ni,

characterized in that $0.10 \leq x \leq 0.70$,

$1.5 \leq a \leq 2.2$, and

$12 \leq b \leq 17$.

10. (Canceled)

11. (Previously presented): The sintered magnet according to claim 9, characterized in that said sintered magnet has a saturation magnetization of 5.1 kG or more.

12. (Previously presented): The sintered magnet according to claim 9, characterized in that said sintered magnet has a saturation magnetization of 5.0 kG or more and a squareness of 80% or more.

13. (Previously presented): The sintered magnet according to claim 9, characterized in that said sintered magnet has a saturation magnetization of 5.0 kG or more and a residual magnetic flux density of 4.2 kG or more.

14. (Previously presented): The sintered magnet according to claim 9, characterized in that said element M is Zn.

15. (Previously presented): The sintered magnet according to claim 9, characterized in that said element A is Sr.

16. (Previously presented): The sintered magnet according to claim 9, characterized in that said element A is Sr and Ba.

17. (Currently amended): A bonded magnet comprising:
a ferrite magnet powder represented by the composition formula $AFe^{2+}{}_{a(1-x)}M_{ax}Fe^{3+}{}_{b}O_{27}$, wherein A represents at least one element selected from the group consisting of Sr, Ba, and Pb; and M represents at least one element selected from the group consisting of Zn, Co, Mn, and Ni, and wherein $0.10 \leq 0.30 \leq x \leq 0.70$, $1.5 \leq a \leq 2.2$, and $12 \leq b \leq 17$; and
a resin phase that disperses and retains said ferrite magnet powder.

18. (Currently amended): A magnetic recording medium comprising a substrate and a magnetic layer formed on said substrate,
characterized in that said magnetic layer has a ferrite structure represented by the composition formula $AFe^{2+}{}_{a(1-x)}M_{ax}Fe^{3+}{}_{b}O_{27}$, wherein A represents at least one element selected from the group consisting of Sr, Ba, and Pb; and M represents at least one element selected from the group consisting of Zn, Co, Mn, and Ni, and
wherein $0.10 \leq 0.30 \leq x \leq 0.70$, $1.5 \leq a \leq 2.2$, and $12 \leq b \leq 17$.

19. (Original): The magnetic recording medium according to claim 18, characterized in that said magnetic layer has a saturation magnetization of 5.2 kG or more.

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20. (Original): The magnetic recording medium according to claim 18, characterized in that said M is Zn and said magnetic layer has a saturation magnetization of 5.2 kG or more and a residual magnetic flux density of 4.5 kG or more.